

A Level Computer Science

Exam Style Questions

Unit 1.3.4

Web Technologies

Part 1: HTML & CSS

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| Name | | Date | |
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| Score | Percentage | Grade |
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| / 27 | | |

Question 1

The Big Brains exam board has produced a website that allows students to access revision videos. All pages in the site contain the following tag in the head section.

```
<link href="themes/standard.css" rel="stylesheet" type="text/css">
```

Describe **one** advantage of storing the CSS in an external file rather than it being embedded within HTML files.

[3]

Question 2

A website has the following HTML code.

```
<html>
  <head>
    <title>My Stamp Collection - European Stamps</title>
  </head>
  <body>
    <h1 style="font-family:Arial; color:darkGreen">United Kingdom</h1>
    <p>These are my stamps from the UK.</p>

    <!-- Code A -->

    <!-- Code B -->

  </body>
</html>
```

the site's owner wants to add the photo UKstamps.jpg in place of the comment

<!-- Code A -->

a) Write the code that should go in place of the comment <!-- Code A -->

[2]

- b) Where the comment `<!-- Code B -->` is, the site's owner wants to add the text:

Find out more about UK stamps

as a link to the UK Stamp Collectors Guild website which has the URL:

<http://ukstampcollectorsguild.co.uk>

Write the code that should go in place of the comment `<!-- Code B -->`

[2]

- c) The site uses styling set out as attributes in tags rather than a linked CSS file.

- i. Give **one** disadvantage of this to the site's owner.

[1]

- ii. Give **one** disadvantage of this to the site's visitors.

[1]

- d) The site needs a light green (web colour `lightGreen`) background.

Explain what change needs to be made to the current page in order to do this.

[3]

Question 3

A website has the following code:

```
<p>
  <form action="checkUser.php">
    Username:<br>
    <input type="text" name="username">
    <br>
    Password:<br>
    <input type="password" name="password">
    <br><br>
    <input type="submit" value="submit">
  </form>
```

```
<p id="warning">Unauthorised access to this system will be prosecuted</p>
```

The page is linked to a style sheet. The message Unauthorised access to this system will be prosecuted is red with a monospace font. (Note this is the only text on the page that has this formatting)

- a) Write the segment of CSS code that would appear on the style sheet to make the message appear in the way described.

[3]

- b) Explain the meaning of the HTML line `<input type="text" name="username">`

[2]

Question 4

A website contains the following HTML:

```
<html>
  <head>
    <title>Boris' Cake Shop</title>
    <link rel="stylesheet" type="text/css" href="style.css">
  </head>
  <body>
    <h1>Boris' Cake Shop</h1>
    <p id="intro">
      Welcome to Boris' Cake Shop.
      <script>
        var hour = new Date().getHours{}; // gets hour value of current time
        if (hour > 9 && hour < 17)
        {
          document.write("We are currently open.");
        }
        else
        {
          document.write("We are closed, visit us between 9 and 5");
        }
      </script>
    </p>
    <div class="customerQuote">
      Boris makes the best cupcakes I have ever tasted.
    </div>
  </body>
</html>
```

- a) Explain the difference between a HTML id attribute and a HTML class attribute.

[2]

- b) The html file is linked to the CSS file style.css

Text between h1 tags should be in the font Arial.

The customer quote should be on a background with the colour E8C3E1.

The introduction text should be dark red (using the named colour darkRed).

Write the code that should go in style.css to give this formatting.

[6]

- c) Some users have reported that there is a bug and the site says the shop is closed when they log on between 9 and 10 in the morning.

Explain how this bug can be fixed.

[1]

- d) Give one disadvantage of this code being run client side rather than server side.

[1]